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NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

05/14/2009

Striker Striker & Stenby 103 East Neck Road Huntington, NY 11743 EXAMINER

DESAI, NAISHADH N

ART UNIT

PAPER NUMBER

2834

DATE MAILED: 05/14/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/587.531	07/26/2006	Martin Hevder	3773	8914

TITLE OF INVENTION: ELECTRIC MACHINE COMPRISING AN AXIAL SPRING-LOADED ELEMENT

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	08/14/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless correcte maintenance fee notifical	correspondence including below or directed other	ng the Patent, advance nerwise in Block 1, by	orders and notification of ry (a) specifying a new corres	maintenance fees w spondence address;	vill be and/o	mailed to the current r (b) indicating a sepa	correspondence address as rate "FEE ADDRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.			
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Striker Striker 103 East Neck R Huntington, NY	load	I he Stat addi tran	reby certify that these Postal Service we ressed to the Mail asmitted to the USP	is Fee(vith suf Stop TO (57	s) Transmittal is being fficient postage for firs ISSUE FEE address (1) 273-2885, on the date	deposited with the United t class mail in an envelope above, or being facsimile ate indicated below.	
							(Depositor's name)
			_				(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR		ATTC	RNEY DOCKET NO.	CONFIRMATION NO.
10/587,531	07/26/2006		Martin Heyder			3773	8914
TITLE OF INVENTION	: ELECTRIC MACHINI	E COMPRISING AN A	AXIAL SPRING-LOADED	ELEMENT			
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUI	E FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0		\$1810	08/14/2009
EXAM	INER	ART UNIT	CLASS-SUBCLASS]			
DESAI, NA	ISHADH N	2834	310-090000	•			
"Fee Address" ind. PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A PLEASE NOTE: Unl	less an assignee is identi h in 37 CFR 3.11. Comp	'Indication form ed. Use of a Custome A TO BE PRINTED O	registered attorney or a	vely, le firm (having as a agent) and the nam meys or agents. If printed. pe) latent. If an assign assignment.	membes of uno nan	per a 2p to a 3dentified below, the do	ocument has been filed for
Please check the appropr	iate assignee category or	categories (will not be	e printed on the patent):	Individual 🗖 Co	orporat	ion or other private gro	up entity Government
	are submitted: To small entity discount p # of Copies	4b. Payment of Fee(s): (Plea A check is enclosed. Payment by credit car The Director is hereby overpayment, to Depo	rd. Form PTO-2038	is atta	ached. required fee(s), any def	·	
••	s SMALL ENTITY statu	is. See 37 CFR 1.27.	☐ b. Applicant is no lon				
NOTE: The Issue Fee an interest as shown by the i	d Publication Fee (if requeecords of the United Sta	uired) will not be acceptes Patent and Tradem	pted from anyone other than t ark Office.	the applicant; a regi	stered	attorney or agent; or th	e assignee or other party in
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10/587,531	07/26/2006	Martin Heyder	3773 8914			
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Striker Striker & Stenby 103 East Neck Road			DESAI, NAISHADH N			
			ART UNIT	PAPER NUMBER		
Huntington, NY 11	1743		2834			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)				
	10/587,531	HEYDER, MARTIN				
Notice of Allowability	Examiner	Art Unit				
	NAISHADH N. DESAI	2834				
The MAILING DATE of this communication appeal all claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R	(OR REMAINS) CLOSED in or other appropriate commu IGHTS. This application is s	n this application. If not included unication will be mailed in due course. THIS				
1. This communication is responsive to <u>01/21/2009</u> .						
2. ☑ The allowed claim(s) is/are <u>1-14</u> .						
 3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). 	e been received. e been received in Applicatio	on No				
* Certified copies not received:						
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the requirements				
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give						
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.					
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached						
1) hereto or 2) to Paper No./Mail Date						
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date						
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t						
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT						
 Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08),	6. ☐ Interview S Paper No./ 7. ☐ Examiner's	formal Patent Application ummary (PTO-413), 'Mail Date Amendment/Comment Statement of Reasons for Allowance				
	/Quyen Leung Supervisory Pat	/ tent Examiner, Art Unit 2834				

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DETAILED ACTION

Information Disclosure Statement

1. The information disclosure statement (IDS) submitted on 03/26/2009 is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

Allowable Subject Matter

- 2. Claims 1-14 are allowed over prior art of record.
- 3. The following is an examiner's statement of reasons for allowance:

Regarding claim 1, none of the prior art references of the record, either standalone or in combination, teaches an axial spring element wherein an inner diameter of
the inner ring forms a clearance fit with an outer diameter of the rotor shaft, thereby
simplifying axial installation and axial backlash compensation of the spring element,
wherein the rotor component and not the rotor shaft is configured to perform radial
guidance of the spring element, and wherein for assembling the electrical machine, the
axial spring element is fixed in position at least axially on the pre-installed rotor, such
that the rotor is insertable overhead via a blind assembly into the roller bearing, which
was previously installed in housing part.

Regarding claim 12, none of the prior art references of the record, either standalone or in combination, teaches an electric machine in a motor vehicle with a rotor shaft in a housing via a roller bearing, an axial spring element having inner and outer rings interconnected in an axially resilient manner wherein the outer ring is connected with the rotor component for a joint rotation relative to the housing part, the outer ring is Application/Control Number: 10/587,531

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attached directly to an end face of the armature lamination core and wherein the outer ring includes a radial, circumferential outer wall with a cylindrical outer surface that forms a press connection with a cylindrical recess in the rotor component.

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Regarding claim 13, none of the prior art references of the record, either standalone or in combination, teaches an electric machine in a motor vehicle with a rotor
shaft in a housing via a roller bearing, an axial spring element having inner and outer
rings interconnected in an axially resilient manner wherein the outer ring is connected
with the rotor component for a joint rotation relative to the housing part, the outer ring is
attached directly to an end face of the armature lamination core and wherein the outer
ring is fixed in position axially on the rotor component using a detent connection, a rear
section, a bayonet connection or a material deformation.

Regarding claim 14, none of the prior art references of the record, either standalone or in combination, teaches an electric machine in a motor vehicle with a rotor shaft in a housing via a roller bearing, an axial spring element having inner and outer rings interconnected in an axially resilient manner wherein the outer ring is connected with the rotor component for a joint rotation relative to the housing part and wherein the outer ring is attached directly to an end face of the armature lamination core and wherein on the lamination core, a recess is formed, wherein the outer ring engages in the recess to form the recess, some of said lamella layers have a larger annular recess than an uppermost lamina layer on an end face of the rotor component.

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JP 05030701 disclose a motor comprising: a pre-load bearing, a coil spring having a flat surface part, brought into press contact respectively with a rotor and an inner ring of a bearing shaft bush to fit slidably to a shaft.

US 5959381 disclose dual rate spring for bearing retention, wherein the inner portion of the spring element defines a thrust portion.

- 4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."
- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to NAISHADH N. DESAI whose telephone number is (571)270-3038. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Quyen Leung can be reached on (571) 272-8188. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Quyen Leung/ Supervisory Patent Examiner, Art Unit 2834

/Naishadh N Desai/ Examiner, Art Unit 2834